

THE OPEN UNIVERSITY OF SRI LANKA
 FACULTY OF HEALTH SCIENCES
 DEPARTMENT OF PSYCHOLOGY & COUNSELLING
 2020/2021 – SEMESTER II—FINAL EXAMINATION



BSC (HONS) IN PSYCHOLOGY
PLU 3310-BIOLOGICAL PSYCHOLOGY - LEVEL 03
FINAL EXAMINATION PAPER
DURATION: 02 HOURS

DATE: 14th OCTOBER 2022

TIME: 2.00PM – 4.00PM

SECTION 2: STRUCTURED ESSAY QUESTIONS (60 MARKS)

Choose 04 out of the 06 questions given below and answer using the provided answer sheets

1. (a) Cell replication is important to continue the life on Earth. Name three key events that the cell replication is responsible for (3 marks)
- (b) List the four distinct phases of the cell cycle (4 marks)
- (c) Briefly explain three differences between DNA and RNA (8 marks)

2. (a) Briefly explain two key features of hormones (6 marks)
- (b) Explain about three hormones released by the anterior pituitary gland (9 marks)

3. (a) Briefly explain what is localization of brain function? (3 marks)
- (b) Describe about the brain areas responsible for human speech and language comprehension (6 marks)
- (c) Explain about the activities of an action potential and synapse? (6 marks)

4. (a) Briefly describe what is a cardiac cycle? (7 marks)
- (b) Explain about two types of white blood cells (8 marks)

5. (a) Draw a diagram and label a synapse, which carries out chemical signal transmission (6 marks)
- (b) Explain about three functions of the frontal lobe important for humans (9 marks)

6. (a) Name four classes of neurotransmitters based on their chemical structure (4 marks)
- (b) Name what is known as the molecule of happiness with a brief explanation (5 marks)
- (c) Briefly define what is known as the dopamine hypothesis of schizophrenia (6 marks)

